

PLAN OF STUDIES
CEEM 242: BACHELOR OF MECHATRONICS ENGINEERING TECHNOLOGY (HONOURS)

| Sem | Code | Course Subjects | Credit | Lecture (L) | Tutorial (T) | Practical (P) |
|-----|--------|---------------------------------------|--------|-------------|--------------|---------------|
| 1 | MEK401 | Statics | 3 | 2.5 | 1 | 0 |
| | MEK402 | Engineering Drawing | 3 | 2 | | 2 |
| | MEK425 | Electric Circuit | 3 | 2 | | 2 |
| | MAT406 | Foundation Mathematics | 3 | | | |
| | CTU552 | Falsafah dan Isu Semasa | 2 | | | |
| | MEK452 | Material Science & Technology | 3 | 2 | 1 | 1 |
| | XYZ111 | Co-Curriculum I | 1 | | | |
| 2 | MEK450 | Thermofluid | 3 | 2 | 1 | 1 |
| | MEK451 | Engineering Workshop Practice | 2 | 0.5 | | 3 |
| | MEK403 | Mechanics of Solids | 3 | 2 | 1 | 1 |
| | CSC430 | Computer Programming | 3 | | | |
| | MEK475 | Electronics | 2 | 1 | | 2 |
| | MEK453 | Dynamic Machine | 3 | 1 | | 4 |
| | XYZ121 | Co-Curriculum II | 1 | | | |
| 3 | ELC501 | English for Critical Academic Reading | 2 | | | |
| | MEK500 | Computer-Aided Design | 3 | 2 | | 2 |
| | MEK550 | Machine and Drives | 3 | 2 | 1 | 1 |
| | MEK526 | Fundamental of Digital System | 3 | 2 | | 2 |
| | MAT438 | Foundation of Applied Mathematics | 3 | | | |
| | BXY401 | Third Language 1 | 2 | | | |
| | XYZ131 | Co-Curriculum III | 1 | | | |
| 4 | ENT600 | Entrepreneurship | 3 | | | |
| | MEK575 | Embedded Systems | 3 | 2 | | 2 |
| | MEC551 | Numerical Methods | 3 | 2 | 2 | |
| | MEK576 | Instrumentation and Measurement | 3 | 2 | | 2 |
| | MAT565 | Advanced Differential Equations | 3 | | | |
| | BXY451 | Third Language 2 | 2 | | | |
| 5 | MEK525 | Signal and System | 3 | 2 | | 2 |
| | EWC661 | English for Report Writing | 2 | | | |
| | MEK625 | Mechatronics Integrated Project 1 | 2 | 1 | | 2 |
| | MEC626 | Control System 1 | 2 | 1 | | 2 |
| | BXY501 | Third Language 3 | 2 | | | |
| | MEK628 | Robotic Technology | 3 | 2 | | 2 |
| | MEK629 | Industrial Automation | 3 | 2 | 2 | |
| 6 | MEK604 | Industrial Management | 3 | 2 | | 2 |
| | CTU554 | Penghayatan Etika dan Peradaban | 2 | | | |
| | MEK603 | Technologists in Society | 3 | 2 | 2 | |
| | MEK627 | Mechatronics Integrated Project 2 | 3 | 2 | | 2 |
| | MEK630 | Control System 2 | 2 | 1 | | 2 |

| | | | | | | |
|----------------------------|--------|---------------------|------------|---|---|----|
| | MEK600 | Machine Vision | 3 | | | |
| | MEK601 | FYP 1 | 2 | 1 | 1 | 1 |
| 7 | MEK602 | FYP 2 | 6 | 0 | 1 | 11 |
| | MEK6XX | Elective course 1 | 6 | 4 | | 4 |
| | MEK6XX | Elective course 2 | 6 | 4 | | 4 |
| 8 | MEC698 | Industrial Training | 18 | | | 36 |
| Total Contact Hours | | | 140 | | | |

| List of Elective Subjects | | | Credit | Lecture | Tutorial | Practical |
|---------------------------|--------|-----------------------------------|--------|---------|----------|-----------|
| Sem | Code | Course | | | | |
| 7 | MEK650 | AVR TECHNOLOGY | 6 | 4 | | 4 |
| 7 | MEK651 | MANUFACTURING TECHNOLOGY | 6 | 4 | | 4 |
| 7 | MEK652 | PROGRAMMING FOR MECHATRONICS | 6 | 4 | | 4 |
| 7 | MEK653 | APPLIED TELECOMMUNICATION AND IOT | 6 | 4 | | 4 |
| 7 | MEK654 | MACHINE VISION TECHNOLOGY | 6 | 4 | | 4 |
| 7 | MEK655 | CAD/CAM | 6 | 4 | | 4 |
| 7 | MEK656 | INDUSTRIAL TRAINING 1 | 6 | 4 | | 4 |
| 7 | MEK657 | INDUSTRIAL TRAINING 2 | 6 | 4 | | 4 |